

BL12000-(Input)-RR-(V/F) Railroad Signal Source SPECIFICATIONS

Behlman's RR series of Railroad Signal Sources/Frequency Converters are low cost, highly reliable, switch mode units built for Railroad Signaling. The RR series can be supplied with any single or three-phase input and outputs a clean, regulated AC at a precise frequency from 25 Hz to 250 Hz. These rugged signal sources are built to support the rigors of operating in the harsh environment of Railroad signaling equipment.

FEATURES

- Input & Output Isolation Transformers
- Short circuit protection with Auto-reset
- Rugged construction
- Optional Alarm contacts and LED indicators
- Optional AAR terminals for input & output



INPUT

Voltage

C8: 120 VAC +/- 10%, Single-phase C9: 240 VAC +/- 10%, Single-phase C10: 480 VAC +/- 10%, Single-phase

Frequency: 57 - 63 Hz. Other frequency available, contact factory.

OUTPUT

Voltage: Any Fixed voltage 100 to 480 VAC, single-phase,

Transformer Isolated and Floating.

Frequency: Any Fixed Frequency from 50 to 250 Hz +/- 0.25 Hz

Power: 12000 VA

Current Crest Factor: 3:1

Power Factor: 100% of rated output into any power factor load

Distortion: 2.0% Typical THD, full resistive load.

Load Regulation: $\pm 1.0\%$ No Load to Full Load Line Regulation: $\pm 0.5\%$ for $\pm 10\%$ Line Change

Efficiency: 80% typical

CONTROL CIRCUIT

External Sync: Synchronize AC output with 120 VAC external input.

PROTECTIVE CIRCUITS / INDICATORS

Input: Main circuit breaker and surge arrestors.

Constant Current Mode: Overload automatically causes voltage fold-back to provide

maximum current without distorting output waveform.

Overload Protection: Short Circuit overload electronically disables output to

protect load. Automatic reset upon overload removal.

Thermal Protection: Internal temperature sensor prevents heat damage.

Output: Surge arrestors & transformer isolated.

Meters: Digital Meters for Volts, Amps & Frequency

Accuracy, +/- 2% Full Scale / +/- 1 digit.

MECHANICAL SPECIFICATIONS

Dimensions: High strength rack cabinet with casters 44"H x 31.6"D x 22.1"W.

Weight: 600lbs
Operating Temperature: 0 to 50° C.
Cooling: Internal fans.

Input connections: Screw type terminals.
Output connections: Screw type terminals.
Sync connections: Screw type terminals

OPTIONS:

A: Alarms, Contact closure & Indicator

- 1. Inv OK Loss of Inverter output.
- 2. Sync Loss of sync input
- 3. Lock Out of phase condition between Inverter output and Sync Input
- 4. Over Temp Over Temperature

AAR: AAR Terminals, input and output

ID: Input Turn on Delay

Model Selection:

World Headquarters

BL12000-C10-RR480/100-A-AAR

Input: 480 VAC, single-phase, 57-63 hZ

Output: 480 VAC, 100 Hz

Option: Alarms & AAR terminals